

Metal Bank
TtEC Contractor Change Request (CCR) Tracking Log

CCR #	CCR Title	Item Description	Date Submitted	Date Returned by Malcolm Pirnie	Approval Status	EPA Review Status and Approval
CCR 1	Additional Funds for Anchor Trench	Additional funds are requested to cover the cost of the anchor trench, as it remains on Drawing C-24. TtEC's 6-30-06 Technical Proposal Section 11.5 specifically excludes costs for the anchor trench.	4/3/07	4/25/07	Approved as noted	NA
CCR 2	Cost of Turbidity Curtain Placement	Additional funds are requested to cover the cost of placement of a turbidity curtain during riprap placement. A note on the drawing and specification (Specification 02921, Drawing C-35) changes adds a requirement to place turbidity curtain while placing riprap.	4/3/07	4/25/07	Approved as noted	NA
CCR 3	Additional Trailer Funding	Additional funds are requested to cover the cost of an additional trailer. Specification 01010 has been revised to add the requirement for a trailer for the EPA, if this is in addition to the one trailer for MP this will increase project costs. TtEC assumes that the requirement for the additional trailer includes all of the required furnishings and services as the original trailer.	4/3/07	4/25/07	Approved	NA
CCR 4	Sediment Pile Sampling	Additional funds are requested to cover the cost of sediment pile sampling. Specification 02410 adds requirement to sample sediment piles. TtEC assumes the specifications will be revised to reflect changes discussed on the 2-9-07 conference call. This will increase project costs.	4/3/07	4/25/07	Approved as noted	NA

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CCR 5	Substitute PZC Steel Sheet Pils for AZ Steel Sheets	TtEC is requesting permission to substitute PZC steel sheet pile for the specified AZ. Currently, Specification 02375 requires AZ steel sections of ASTM A572 Grade 60 steel. The section modulus per feet of the proposed PZC steel sheet pile is the same as AZ steel sheet pile specified in the Specification 02375. While the steel grade for the proposed sheet pile is classified Grade 50 (not Grade 60 as specified for the AZ sheet pile in the Specification 02375), it has 98% of the strength of	5/25/07	6/19/08	Approved	NA
CCR 6	USEPA Comments and Sub-Aqueous Cap Extra Time Costs	EPA Comments - TtEC is requesting a contract price change for the extra time spent on the EPA comments and time spent on developing pricing for the alternate approaches for the sub-aqueous cap. Cost associated with pre-mobilization preparation and procurement will be modified once we receive "notice to proceed" from EPA.	11/2/07	NA - replaced by CCR Supplemental	NA - replaced by CCR Supplemental	NA
CCR 6 (supplement)	USEPA Comments and Sub-Aqueous Cap Extra Time Costs	TtEC is requesting a contract price change for the extra time spent on the EPA comments and time spent on developing pricing for the alternate approaches for the sub-aqueous cap. Cost associated with pre-mobilization preparation and procurement will be modified once we receive "notice to proceed" from EPA. TtEC is billing a portion of the contracted mobilization cost to cover expenses to date for these activities.	2/28/08	6/19/08	Approved	NA
CCR 7	Turbidity Curtain Contingency Plan	TtEC is requesting a contract price change for time to prepare a Contingency Plan to address the steps to be taken if silt curtains fail to meet turbidity performance requirements. This 2 to 3 page Plan will further detail the contingencies already discussed in the RAWP. This change covers only the cost associated with the preparation of this Contingency.	3/12/08	6/19/08	Approved	NA
CCR 8	Sheet Pile Wall Contingency Plan	TtEC is requesting a contract price change for time to prepare a Sheet Pile Wall Contingency Plan (in the event the designed sheet pile wall cannot be installed as currently designed). There is no additional field investigation activities included within this change request.	WITHDRAWN			
CCR 9	Additional Hours for Preliminary Projection	TtEC is requesting additional hours to the preliminary projection provided to Malcolm Pirnie last month to take us up to the "negotiations" meeting on May 8, 2008 and then another week of follow-up leading to construction Notice to Proceed (NTP) by May 16, 2008. This is our current projection based on what we know today as we begin evaluation of the Best and Final Offers (BAFOs).	4/21/08	7/15/08	Approved as noted	NA
CCR 10	Proposal for Courtyard UST Removal	Prepare/execute a demolition plan for the removal and disposal of the UST and concrete vault located in the Courtyard Area	7/30/08	8/7/08	Approved	NA

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CCR 11	Additional Monitoring Well Abandonment	Cost of abandoning four additional monitoring wells as Specification 02750 has been modified and one additional monitoring well identified in the field as it was not on drawings.	7/30/08	8/7/08	Approved	NA
CCR 12	Alternative Sheet Pile Wall System	TtEC is requesting the use of an alternative method of connection of the sheet pile wall to the wale system as demonstrated in the attachment, in lieu of what is depicted in Drawing C-31.	7/17/08	8/13/08	Approved as noted	NA
CCR 13	Alternate Super Silt Fence	TtEC is requesting the use of alternate materials for super silt fence and fence posts. The current design calls for chain link fence and hollow fence posts. The modified fence will be a mesh wire fence (gauge 14, opening of 2"x4, height of 36", and length of 50'). The modified posts will be solid metal. These alternates will allow for improved durability of the fence and protection of the environment.	7/24/08	7/29/08	Approved	Approved 7/29
CCR 14	Biodegradable Staples	TtEC is requesting the use of alternate materials for the stainless steel staples to used to anchor erosion control blankets. The 4-inch biodegradable stakes meet ASTM Biodegradation Standards. These stakes have more anchoring force than metal staples, reduce risk of damage to equipment, and are environmentally sound. The current design calls for wood stakes and/or staples as defined within Section 806 of the current edition of the Pennsylvania Department of Transportation Specifications, Publication 408.	8/5/08	8/6/08	Approved as noted/confirm (Confirm bio-staples with erosion blanket manufacturer)	NA
CCR 15	2nd Decon Pad	TtEC is requesting approval to install a second decontamination pad if needed. TtEC requests that the primary decontamination pad be moved and a second one installed to improve truck traffic and efficiency. EPA provided conditional approval of this request in an e-mail dated 7/29/08.	8/5/08	7/29/08	Approved as noted	approved 7/29
CCR 16	Temporary Use of Cottman Ave Site Entrance	TtEC is requesting that the construction entrance temporarily remains at the end of Cottman Avenue until the removal of the recently discovered Courtyard UST has been completed. This will allow TtEC to ship waste offsite within regulated time frames prior to the tank being removed.	8/5/08	8/7/08	Approved as noted	NA
CCR 17	Testing Requirements for R-3, R-5, and R-6 Materials	TtEC is requesting the removal of the ASTM D2216 determination of water content testing, USDA classification, and TCL and TAL laboratory analysis for the R-3 sub-aqueous mattress and rip-rap cap material, R-5 scour protection material, and the R-6 sub-aqueous cap buttress material.	8/5/08	9/11/08	Approved	EPA (9/11/08) and AMEC Approved
CCR 18	Omission of Turbidity Curtain Floatation Devices	TtEC is requesting the removal of the requirement for the auxiliary floatation device from the design of the turbidity curtain found on drawing C-37.	8/6/08	9/8/08	Approved	AMEC (9/5/08) Approved
CCR 19	Reduction in Air Monitoring Frequency	TtEC is requesting a reduction in the required frequency of air monitoring as stated in the Final Health and Safety and Contingency Plan.	8/11/08	8/14/08	Approved as noted	

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CCR 20	Digital Construction Video	TtEC is requesting a change from submitting the construction video log on video tapes to submissions in digital format.	8/6/08	8/7/08	Approved	Na
CCR 21	Dioxin Analysis and PCB Limitation Changes in Philadelphia Water Permit	TtEC is requesting a contract price change for additional analyses required by the City of Philadelphia Industrial Water Discharge Permit. TtEC's laboratory provided a price of \$1,590 per sample (with 3 day turn around time as required by the Discharge Permit). TtEC expects to collect 26 dioxin samples during the life of the project, including confirmation samples that the treatment system is working efficiently. In addition, the purpose of this CCR is to document the change in the allowable PCB concentrations in effluent. The 2002 permit conditions AMEC obtained allowed for the effluent to contain 0.01 pounds per day of PCBs. Due to regulation changes with the Philadelphia Water Department, the effluent cannot contain any PCBs.	8/7/08	8/25/08	Approved	NA
CCR 22	Removal of Groundwater Elevation Monitoring	TtEC is requesting the removal of the requirement to collect water levels in piezometers and monitoring wells in the vicinity of SA2 and SA 4/5 as they have been removed per Malcolm Pirnie's direction.	8/11/08	8/14/08	Approved	NA
CCR 23	Traffic Flow and Use of Cottman Avenue for Courtyard Soil Shipment	TtEC is requesting a temporary alteration in the traffic flow pattern for access to the site and into the exclusion zone for the loading and transportation of the excavated Courtyard materials (CY1, CY2, and the Courtyard overburden). Haul trucks will enter the site from the Cottman Avenue entrance. The trucks, after passing through the initial tire cleaner, will enter the exclusion zone along the eastern edge of the site and receive their load of material in the load out area. The loaded trucks will then loop around the courtyard stockpiles, be cleaned at the decontamination pad, and exit the exclusion zone. Cottman Avenue will be utilized as a temporary entrance/exit for truck traffic only for the offsite transportation of the aforementioned Courtyard materials.	8/11/08	8/14/08	Approved	Approved
CCR 24	Revision of Testing Requirements for Cover Soil	TtEC is requesting the removal of the requirement for cover soil to meet the BTAG ecologically protective analytical criteria presented in Appendix B of this Specification. These criteria are based on the requirements for freshwater sediment placement. The placement of soil in the river has been removed from the design (and work plan) and replaced by the marine mattress. Therefore these excessively stringent soil criteria are a vestigial specification from an earlier version of the design. The cover soil analytical requirements should be relevant to the placement of a cover material on an upland area. TtEC is recommending that the BTAG requirement be replaced with the PA Clean Fill Concentration limits for organics and inorganics.	8/12/08	8/14/08	Approved as noted/resubmit	Not Approved
CCR 25	Covering of Soil Stockpiles	Tetra Tech EC is requesting a removal of the requirement to cover the stockpiles in the staging area with 6-mil poly sheeting.	8/13/08	8/27/08	Not Approved	NA

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CCR 26	Acceleration in Schedule of Access Ramp Installation and Sediment Excavation	Tetra Tech EC is requesting an acceleration of the sediment excavation schedule and a removal of the construction and utilization of the sediment dewatering area described in the RAWP. Sediment excavation is currently scheduled to start after completion of the sheetwall installation concurrent with the SA-4/5 excavation. Having the SA-2 and SA-3 excavations completed at this time concurrent with the sheetwall installation, an opportunity for the usage of the soil stockpile area to decant the excavated sediments has been created. Once SA-2 and SA-3 soils have been analyzed and transported off the soil stockpile pad, the need for a separate sediment dewatering area becomes irrelevant. The sediment material can be excavated before completion of the sheet wall, dewatered on the soil stockpile pad, and stored there until completion of the SA-4/5 excavation. Using the soil stockpile area for sediment storage will save time and ensure the material will be adequately dewatered when it is needed for backfill	WITHDRAWN			
CCR 27	Sealing of Soil Management Pad	Tetra Tech EC is requesting a change to the Work Plan relating to sealing the soil stock pile pad.	8/14/08	9/25/08	Approved	Recognized in letter on 9/17
CCR 28	Temporary Use of Sealed Decon pad for TSCA Courtyard Soils	Tetra Tech EC is requesting temporary use of the sealed decontamination pad for the loading of trucks for the offsite disposal of TSCA material excavated from Courtyard Area prior to the restoration of the existing decontamination pad to the Remedial Action Work Plan Figure 5 requirements. The decontamination pad will be restored to meet the requirements of the Remedial Action Work Plan no later than the week of August 25, 2008. The trucks will be routed around the site in accordance with USEPA's August 8, 2008 e-mail (re:soil loading plan) to Steve Langseder of Malcolm Pirnie.	8/14/08	8/14/08	Approved as noted/confirm	On 8/14/08, EPA requested pad be restored prior to shipping waste offsite
CCR 29	Change in Transportation and Disposal Broker	Tetra Tech EC is informing Malcolm Pirnie in accordance with Article Two, Section 205 of the Metal Bank Contract, that the subcontractor for Transportation and Disposal of waste materials is being changed from Mill City Environmental Corporation to Capital Environmental Services. Capital Environmental Services is located at 4450 South Mountain Drive, Emmaus, PA 18049. The previously submitted facilities to receive the waste materials will not be changed at this time. Should changes to the waste receiving facilities occur they will be submitted in accordance to specification 01640.	8/26/08	9/2/08	Approved	EPA Recognized Broker Change on 9/16/08

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CCR 30	Water Treatment Plant Modifications	TtEC is requesting three modifications to the Construction Water Treatment System. This Work Plan Section was based on general pretreatment standards AMEC obtained from the Philadelphia Water Department in 2002 during the design process. Metrics included an allowable discharge of 0.01 pounds per day of PCBs among others. However, when the Philadelphia Water Department issued TtEC the Industrial Discharge Permit, several details had changed. Our Industrial Discharge Permit restricts PCB content of treated water to 0.0 pounds per day and requires dioxin sampling. The general pretreatment standards did not restrict the daily discharge volume; however our permit restricts us to 25,000 gpd.	9/16/2008	9/17/2008	Approved	Sent to EPA for Informational Purposes 9/17/08
CCR31	SA-3 Groundwater Sampling	Malcolm Pirnie requests that the following additional sampling be conducted at the Site: TtEC shall collect split samples of the green liquids in the SA-3 excavation, at the same time and location that CDM (EPA oversight) collects their samples. Analysis is to include volatile organic compounds (VOCs), semi-volatile compounds (SVOCs), metals (total and dissolved), pesticides/PCBs, glycols, and hexavalent chromium. Malcolm Pirnie requests that TtEC provide estimated costs for this work to the MPI site manager, but TtEC can proceed with the work as soon as necessary.	9/17/08	9/17/08	Approved	Approved by PRP Group
CCR32	Removal of Nuclear Density Testing	Omit the requirement for nuclear density testing during the backfill placement and cover soil placement.	9/2/08	9/11/08	Not Approved	
CCR 33	Extended Use of Cottman Ave Entrance	Tetra Tech is requesting permission to remove SA-2 and SA-3 impacted materials off-site following the same protocols executed for the Courtyard materials in CCR 23. This change request will not impose an alteration of construction traffic flow through the exclusion zone and off-site through the Cottman Avenue entrance as has been approved by the EPA at an earlier date. The onsite traffic pattern will remain the same as depicted within the approved remedial action workplan with the exception of the actual entrance and exit of the project site. The entrance and exit will continue to be from the Cottman avenue gate which has been utilized and has functioned as intended without incident for the Courtyard materials transportation and disposal.	8/26/08	9/2/08	Approved as noted	EPA Approves on 9/22/08
CCR 34	Eliminating Poly Sheeting Under Truck Mats	Tetra Tech EC is requesting- a change to the means and methods by eliminating the 6 mil poly sheeting to cover imported stone for access road construction to the mud flat area.	9/3/08	9/29/08	Approved	MP to provide status form and CCR to EPA for informational purposes
CCR 35	Omitting Sediment Dewatering Pad	Tetra Tech EC is requesting- a change for utilizing the existing paved material stockpile pad and in-place dewatering pumps in lieu of constructing a separate sediment dewatering structure and pumping system.	9/4/08	9/11/08	Approved as noted/confirm	EPA Denies on 9/24/08

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CCR 36	Depolyment of Oil Adsorbent Boom (9/5/08)	Tetra Tech EC is presenting this CCR at the direction of Malcolm Pirnie, Joe Vitale to allow for compensation for deploying 816 feet of adsorbent boom on September 5, 2008 in preparation for a severe weather event. Tetra Tech directed the labor force to cease there scheduled tasks to depart the site in a Tetra Tech vehicle to procure and retrieve the boom required by the direction. The labor force remained dedicated to the adsorbent boom deployment for the remainder of the work day. The adsorbent material was placed along the inside perimeter of the currently installed turbidity barrier. A second layer of absorbent boom was placed at the north end of the sheet pile wall between a pin pile and the shoreline.	9/17/2008	9/17/2008	Approved	
CCR 37	Oil Containment Boom Installation	Malcolm Pirnie is requesting that TtEC procure/lease and execute the installation of an oil containment boom encompassing the near shore of the Metal Bank NPL site	9/10/2008	9/12/2008	Approved	
CCR 38	Relocation of Permanent Site Access Road	Tetra Tech EC is requesting an alteration of the permanent site access road located in the area to the west of Building 7. The access road will be relocated slightly to the east toward Building 7 so that the edge of the road is approximately two (2') feet from the trench that runs parallel to the building's southwestern side. The road will run straight from the western corner of Building 7 to the current design location at the beginning of the south area.	9/9/2008	9/11/2008	Approved	EPA approves road relocation 9/11/08
CCR 39	Building 7 Vault Sampling	Malcolm Pirnie is requesting that TtEC investigate and sample (if necessary) four vault areas that have been identified by the US EPA during their observations of the floor preparations for sealant in Building 7 of the Metal Bank NPL site. The purpose of the investigation is to uncover the vaults, visually inspect for any solid or liquid contents, visually identify, and sample materials to characterize for appropriate TSD management. Due to the unknown prior use of the building, TtEC will have to assess the Health & Safety Risks to assure proper PPE selection for the performance of the investigation Tasks.	10/20/08	Developed on 9/11/2008, Approved on 10/23/08	Developed by MP, Scope and cost developed by TtEC, Approved 10/23/08	
CCR 40	On-Call/T&M for Activities Involving Oil Adsorbent Boom, Pads, etc.	Tetra Tech EC is presenting this CCR #40 to provide for compensation for any costs incurred relating to adsorption materials that require installation, maintenance, or removal within the Delaware River during surface sheen conditions under the direction of Malcolm Pirnie. Tetra Tech's requests for reimbursement will be \$50,000.	9/17/08	9/17/08	Approved	
CCR 41	Sheet Pile Delay from Differing Site Conditions	Sheet Pile Delay: Impacts from differing site conditions.	Being developed by TtEC			

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CCR 42	Sheet Pile Wall Obstruction Busting Delays	Tetra Tech EC is requesting compensation for the time and effort spent during the busting of subsurface obstructions encountered during the installation of the Sheet Pile Wall. As preparatory work for sheet pile driving, we removed surface rock obstructions from the pile wall alignment using an excavator working from the top of slope. When encountered, Tetra Tech has used an excavator to remove or attempt to remove obstructions to a depth of approx. 10 feet below ground surface. Below that depth a rock busting steel H-pile is utilized to break through the obstructions. Obstructions / refusal has been encountered from the surface elevation to the design tip elevations due to bedrock and debris, including a concrete mixer. In accordance with our contract, we notified Malcolm Pirnie of these obstructions/refusal within 5 days of the first observance.	9/26/2008, resubmitted on 10/29/08 with addendum 1	10/30/08	Approved	
CCR 43	Compensation for Additional Sampling and Analysis	As per previous verbal discussion with Joe Vitale and Wyn Davies, Change / Clarification Request #43 will provide for compensation for any costs incurred relating to unforeseen situations that require additional sampling and laboratory analysis under the direction of Malcolm Pirnie. The intent for CCR # 43 is to have the appropriate contract vehicle in place for when the unforeseen need for sampling and laboratory analysis.	9/22/08	9/23/08	Approved	
CCR 44	Delay Summary	Delay summary	Being developed by TtEC			
CCR 45	Location of EPA Site Sign	Tetra Tech EC is requesting clarification on the placement location of the Superfund Site signs.	9/23/08	9/24/08	Approved	
CCR 46	Cease Work order cost	Cease Work order cost	Being developed by TtEC			
CCR 47	Change in Sequence of Excavation Activities	<p>Tetra Tech EC is requesting a change in sequence of site activities. The Excavation Method section of Page 5-26 of Section 5.4.5 reads as follows:</p> <p>“Once the sheet pile wall is installed, upland soil excavation and in-water sediment removal can proceed in accordance with remedial design requirements. TtEC proposes to excavate in-water sediments prior to performing upland excavation. This approach allows more time for dewatering of sediments prior to replacement in the Southern Area excavations.”</p> <p>Tetra Tech EC would like to change this paragraph to read as follows:</p> <p>“Once the sheet pile wall is installed, upland soil excavation and in-water sediment removal can continue in accordance with remedial design requirements</p>	9/30/08	10/20/08	approved	
CCR 48	Differences in Bathymetric Data	Differences in Bathymetry	Being developed by TtEC			

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CCR 49	Geotextile Seam Lystering	Tetra Tech EC is presenting this CCR to clarify the discrepancy between the Final RAWP Vol. 1, Section 5.4.4, Excavation and Earthwork Plan, Page 5-25 and specification 02273 regarding the seaming of geotextiles. Specification 02273 section 3.02 states, "All bedding geotextile seams shall consist of adjacent panels sewn securely together, using approved thread and stitch, according to the approved installation procedures." The RAWP states, "As the face of the fill advances, the geotextile will be unrolled and the seam lystered." Tetra Tech has discussed this incongruity with Malcolm Pirnie and both parties have agreed that implementing seam lystering for securing geotextiles together as stated in the work plan is acceptable.	9/29/08	10/22/08	approved	
CCR 50	Project Delays	Project Delays due to late Payments (CANCELLED)				
CCR 51	Yacht Club	Yacht Club notification (CANCELLED)				
CCR 52	Omission of Geotextile Under R-3 Stone in the Sediment Excavation Area	Tetra Tech EC is requesting the omission of non-woven geotextile placement beneath the R-3 stone in the sediment excavation areas that are under water at low tide. Installation of geotextile fabric under water creates constructability and quality assurance problems. The high velocity current, murky water and extreme tidal forces of the Delaware River make accurate placement of the geotextile unrealistic and potentially hazardous to the installation crew. This inability to ensure accurate positioning of the geotextile under water makes performing quality assurance checks on the required 2' minimum fabric overlap unattainable.	10/1/08	10/24/08	not approved	
CCR 53	Resubmission of Omitting the Sediment Dewatering Structure	<p>Tetra Tech EC is presenting CCR 53 as a revised request for the omission of the sediment dewatering structure. This revision CCR 35 addresses the comments made by EPA RPM Sharon Fang on 9/24/08. Below is the text from CCR 35 with revisions in bold that pertain to Mrs. Fang's comments.</p> <p>Tetra Tech EC is requesting a change for utilizing the existing paved material stockpile pad and in-place dewatering pumps in lieu of constructing a separate sediment dewatering structure and pumping system.</p>	10/7/08	10/20/08	approved as noted	Comments from the EPA received on 10/24
CCR 54	Deletion of CCR 8 - Sheet Pile Wall Contingency Plan	The requirement to prepare a Sheet Pile Wall Contingency Plan has been deleted. This CCR is to document the deletion of the scope of CCR 8 from TtEC's contract.	10/6/08	(have not received formal cover sheet from MP, approved by the PRP Group 11/7/08)	approved	

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CCR 55	Vacuum Truck for SA-4/5 Excavation	OpenTetra Tech is presenting this CCR to request compensation for any costs incurred relating to the procurement, mobilization, and usage of a vacuum truck and additional storage tanks for oil containment during the excavation of SA-4/5 under the direction of Malcolm Pirnie. During excavation activities, some weathered oil is expected to seep through the side walls of the excavation area and potentially mix with the exposed groundwater in the E2, E3, and E6 areas. The vacuum truck will be utilized to draw off the oily liquid from the surface of the groundwater. This liquid would then be stored in a poly tank and disposed of off site as waste oil.	10/29/08	10/29/08	approved	
CCR 56	Sheet Pile Cutting to Required Elevation	TtEC is requesting compensation and schedule extension to cut off the sheet piling currently sticking up out of the ground to achieve the surface design elevations. As agreed to by all parties, design depths for pile installation could not be achieved due to the driven piles encountering excessive obstructions and weathered schist, as confirmed by AMEC's memo to Malcolm Pirnie dated September 5, 2008.	10/8/2008, resubmitted 10/31/08	10/8/2008 (revise/resubmit), 11/17/08 (not approved)	Currently not approved, to be redeveloped by TtEC	
CCR 57	EPA's Water Treatment System Sampling	On October 2, 2008 we were notified that the EPA has now imposed the requirement that the analytical results of each sample be reviewed prior to discharge. Our wastewater discharge permit with the Philadelphia Water Department allows for continuous discharge. If this new EPA requirement forces us to change our treatment system from continuous to a batch system, this will impose additional equipment and labor costs. The costs for this new requirement will be tracked and presented as CCR 57.	Letter acknowledging CCR 57 development sent to W. Davies on 10/6/08. Cost are being tracked by TtEC			
CCR 58	Permeable Turbidity Curtain Installation Cost	Malcolm Pirnie has observed the installed turbidity curtain being adversely affected by the river currents adjacent to the project site. As a possible remedy to the extreme currents, Malcolm Pirnie is requesting that Tetra Tech install an alternative turbidity curtain consisting of permeable material for work zone containment during sediment excavation. The currently installed 22 oz impermeable PVC turbidity curtain is being shifted drastically due to water pressure from the significant tidal forces of the Delaware River. Tetra Tech is proposing a hybrid turbidity curtain that combines impermeable PVC material with a geotextile filter fabric (see the attached specification sheet and diagram). The impermeable PVC section is the upper portion of the permeable curtain which will continue to prohibit the migration of any sheen within the work zone. The filter fabric will allow water to pass through while keeping all sediments within the work zone. Allowing water to evacuate through the material will create an equalization of water pressure and reduce the displacement of the turbidity curtain from its anchored position.	10/27/08	10/29/08	Approved as noted, Malcolm Pirnie approves this CCR provided that Detail 2 is deleted from the plan. Excavating into the bank to anchor the curtain will not be permitted at this time. Malcolm Pirnie requests that TtEC anchors the new curtain to the two shore locations using the same approved means and methods that the current curtain uses. PRP Group Contract extension needed	

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CCR 59	4th Turbidity Monitor Procurement and Installation	The Final Specifications indicate that four turbidity meters are to be installed to measure turbidity. TtEC's 2006 proposal (and baseline estimate) included only three turbidity meters. Three turbidity meters were installed on October 16, 2008 in accordance with the approved Remedial Action Work Plan (RAWP) and Turbidity Monitoring Plan. EPA is requiring that the fourth meter be installed just outside the work zone; the location of this meter will be field adjusted as is the case with the other two meters just outside the work zone.	Rev 0 on 10/31/2008, Rev 1 on 11/6/08	Rev 1 approved on 11/7/2008	Approved	
CCR 60	GPS Unit for Turbidity Monitor Location	Per Malcolm Pirnie's request, TtEC is submitting this CCR to cover the cost of the purchase of a GPS unit. This unit will be used to monitor significant movement of the turbidity meters. TtEC explored the rental of a unit and found that the best rental price was \$75 per month. TtEC feels that the purchase of a GPS unit for \$300 is more cost effective. This CCR also includes one hour per week for four months for TtEC staff to visit each meter via boat to take GPS readings.	11/6/08	11/10/08	Approved	
CCR 61	Turbidity Curtain During Sub-Aqueous Cap	With this CCR, Malcolm Pirnie is requesting that the contract option be exercised for the deployment of a local turbidity curtain during the sub-aqueous cap installation. As described in #3 of the Notes section on the attached Schedule of Prices – June 2008 – rev.1: Total price includes purchase and storage on-site of the local turbidity curtain for the sub-aqueous cap as described under CCR-2. Should the turbidity curtain be required at the direction of EPA and Malcolm Pirnie; the price for deployment is an additional \$107,000. Malcolm Pirnie believes that the deployment of the local turbidity curtain will be required to control turbidity in the Delaware River during the sub-aqueous cap installation, and is providing this CCR to proactively address concerns regarding turbidity control.	10/30/08	10/30/08	Approved	
CCR 62	Additional Disposal of RCRA-Hazardous Soils (rev1)	The schedule of prices includes: <ul style="list-style-type: none"> Item #3 - Waste Disposal - TSCA - 11,900 tons Item #4 - Waste Disposal - Hazardous - 1,300 tons Based on analytical results and waste profiling, TtEC propose the following: <ul style="list-style-type: none"> Item #3 - Waste Disposal - TSCA - 8200 tons Item #4 - Waste Disposal - Hazardous - 5000 tons 	11/5/08	11/10/08	approved	
CCR 63	TtEC's H&S Plan superseding AMEC's H&S Plan	Tetra Tech EC is presenting this CCR to document the Record of Change prepared on 11/6/08 concerning the Metal Bank Site-Specific Health and Safety Plan. The attached Record of Change clarifies that the Tetra Tech Health and Safety Plan included in the Final Remedial Action Work Plan supersedes the AMEC Health and Safety Plan during the ongoing remedial action activities at the Metal Bank site.	11/11/08	11/11/08	approved	11/13/2008

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CCR 64	Cottman Ave Construction Entrance	Tetra Tech is presenting this CCR to document the alteration of the construction entrance/exit from the Milnor Street access gate to the Cottman Avenue access gate for commercial trucks hauling impacted materials off-site and imported materials to support the Metal Bank Construction activities. The Milnor Street gate is unsafe for large tractor-trailers to make turns into or out of the site. Parked cars near the Milnor Street gate that are associated with adjacent commercial properties both limit visibility for truck drivers and make negotiating turns impractical and dangerous. The Cottman Avenue gate is generally safer, more efficient for truck traffic flow, and greatly reduces the chances of a traffic incident. With the closing of the St. Vincent's School, using the Cottman Avenue gate will have no impact on the neighboring property.	11/12/08	11/12/08	Approved	11/17/2008
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